

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 09729562 on March 12, 2002

17 375/222 (7 OR, 10 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/219 TRANSCEIVERS

375/222 .Modems (data sets)

9 379/30 (1 OR, 8 XR)

Class 379 : TELEPHONIC COMMUNICATIONS

379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT

379/27.01 .Testing of subscriber loop or terminal

379/30 ..Loop impedance (e.g., resistance,
capacitance)

8 324/539 (0 OR, 8 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF
ELECTRIC COMPONENTS

324/537 .Of individual circuit component or element

324/539 ..Multiconductor cable

7 379/22.02 (2 OR, 5 XR)

Class 379 : TELEPHONIC COMMUNICATIONS

379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT

379/22 .Of trunk or long line

379/22.02 ..By analysis of injected tone signal

7 379/22.03 (3 OR, 4 XR)

Class 379 : TELEPHONIC COMMUNICATIONS

379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT

379/22 .Of trunk or long line

379/22.03 ..Fault detection or fault location on
telephone link (e.g., continuity, leakage)

6 324/628 (6 OR, 0 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE

RELATIONSHIPS

- 324/612 .Parameter related to the reproduction or fidelity of a signal affected by a circuit under test
- 324/627 ..Shielding effectiveness (SE)
- 324/628 ...Circuit interference (e.g., crosstalk) measurement

6 379/29.01 (1 OR, 5 XR)

Class 379 : TELEPHONIC COMMUNICATIONS

379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR ELECTRICAL CONDITION MEASUREMENT

379/27.01 .Testing of subscriber loop or terminal

379/29.01 ..Terminal arrangement to enable remote testing (e.g., testing interface)

6 725/106 (1 OR, 5 XR)

Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS

725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM COMMUNICATION

725/106 .Telephony via television distribution network

5 324/533 (2 OR, 3 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF ELECTRIC COMPONENTS

324/512 .For fault location

324/527 ..By applying a test signal

324/532 ...Using time measuring

324/533Of reflected test signal

5 370/352 (1 OR, 4 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/351 PATHFINDING OR ROUTING

370/352 .Combined circuit switching and packet switching

5 370/463 (2 OR, 3 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/431 CHANNEL ASSIGNMENT TECHNIQUES

370/463 .Details of circuit or interface for connecting user to the network

- 5 375/260 (0 OR, 5 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT

375/260 .Plural channels for transmission of a single
pulse train

- 5 379/56.2 (5 OR, 0 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/56.1 HAVING LIGHT WAVE OR ULTRASONIC LINK FOR SPEECH
OR PAGING SIGNAL
379/56.2 .Including fiber optic link within telephone
network

- 5 725/131 (1 OR, 4 XR)
Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM
COMMUNICATION
725/131 .Receiver (e.g., set-top box)

- 4 324/527 (0 OR, 4 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF
ELECTRIC COMPONENTS
324/512 .For fault location
324/527 ..By applying a test signal

- 4 324/66 (2 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/66 CONDUCTOR IDENTIFICATION OR LOCATION (E.G.,
PHASE IDENTIFICATION)

- 4 370/465 (1 OR, 3 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/464 COMMUNICATION TECHNIQUES FOR INFORMATION
CARRIED IN PLURAL CHANNELS
370/465 .Adaptive

- 4 370/480 (1 OR, 3 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/473 ..Transmission of a single message having
multiple packets
370/480 .Combining or distributing information via

frequency channels

4 370/484 (0 OR, 4 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/480 ..Combining or distributing information via frequency channels

370/484 ..Digital analysis or synthesis of a group

4 370/494 (3 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/480 ..Combining or distributing information via frequency channels

370/493 ..Combined voice and data transmission

370/494 ...Data over voice

4 370/524 (2 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/498 ..Combining or distributing information via time channels

370/522 ..Signaling (ancillary to main information)

370/524 ...Using a dedicated signaling channel (i.e., D-channel)

4 370/535 (0 OR, 4 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/498 ..Combining or distributing information via time channels

370/535 ..Multiplexing combined with demultiplexing

4 375/219 (1 OR, 3 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

375/219 TRANSCEIVERS

4 375/220 (3 OR, 1 XR)

Class 375 : PULSE OR DIGITAL COMMUNICATIONS

- 375/219 TRANSCEIVERS
375/220 .Transmission interface between two stations or
 terminals
- 4 375/224 (3 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/224 TESTING
- 4 375/229 (3 OR, 1 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/229 EQUALIZERS
- 4 375/231 (2 OR, 2 XR)
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/229 EQUALIZERS
375/230 .Automatic
375/231 ..Training period or initial set up
- 4 379/27.01 (1 OR, 3 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
 ELECTRICAL CONDITION MEASUREMENT
379/27.01 .Testing of subscriber loop or terminal
- 4 379/27.03 (1 OR, 3 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
 ELECTRICAL CONDITION MEASUREMENT
379/27.01 .Testing of subscriber loop or terminal
379/27.03 ..By analysis of testing signal
- 4 438/687 (1 OR, 3 XR)
 Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
- 438/584 COATING WITH ELECTRICALLY OR THERMALLY
 CONDUCTIVE MATERIAL
438/597 .To form ohmic contact to semiconductive
 material
438/687 ..Copper or copper alloy conductor
- 4 725/129 (0 OR, 4 XR)
 Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM

COMMUNICATION

725/118 .Transmission network
725/129 ..Hybrid fiber-coax network

3 174/36 (0 OR, 3 XR)

Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS
174/32 ANTI-INDUCTIVE STRUCTURES
174/35R .Shielded or screened
174/36 ..Conductor only

3 324/525 (1 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF
ELECTRIC COMPONENTS
324/512 .For fault location
324/525 ..By resistance or impedance measuring

3 324/532 (1 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF
ELECTRIC COMPONENTS
324/512 .For fault location
324/527 ..By applying a test signal
324/532 ...Using time measuring

3 359/135 (0 OR, 3 XR)

Class 359 : OPTICS: SYSTEMS
359/109 OPTICAL COMMUNICATION
359/115 .Multiplex
359/135 ..Time division

3 370/249 (3 OR, 0 XR)

Class 370 : MULTIPLEX COMMUNICATIONS
370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION)

370/249 .Loopback

3 370/252 (2 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS
370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION)

370/252 .Determination of communication parameters

- 3 370/395.51 (1 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/351 PATHFINDING OR ROUTING
370/389 .Switching a message which includes an address
header
370/395.1 ..Message transmitted using fixed length
packets (e.g., ATM cells)
370/395.5 ...Multiprotocol network
370/395.51Utilizing a plurality of ATM networks
- 3 370/431 (0 OR, 3 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/431 CHANNEL ASSIGNMENT TECHNIQUES
- 3 370/468 (1 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/464 COMMUNICATION TECHNIQUES FOR INFORMATION
CARRIED IN PLURAL CHANNELS
370/465 .Adaptive
370/468 ..Assignment of variable bandwidth or time
period for transmission or reception
- 3 375/257 (2 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/257 CABLE SYSTEMS AND COMPONENTS
- 3 375/295 (2 OR, 1 XR)
Class 375 : PULSE OR DIGITAL COMMUNICATIONS
375/295 TRANSMITTERS
- 3 379/21 (0 OR, 3 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT
379/21 .Using portable test set (e.g., handset type)
- 3 379/22 (2 OR, 1 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT
379/22 .Of trunk or long line

- 3 379/22.07 (0 OR, 3 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT
379/22 .Of trunk or long line
379/22.03 ..Fault detection or fault location on
telephone link (e.g., continuity, leakage)
379/22.07 ...Telephone multiconducting wires (e.g., tip,
ring and ground wires)
- 3 379/24 (0 OR, 3 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT
379/22 .Of trunk or long line
379/24 ..Electrical parameter measurement (e.g.,
attenuation)
- 3 379/29.05 (0 OR, 3 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT
379/27.01 .Testing of subscriber loop or terminal
379/29.01 ..Terminal arrangement to enable remote testing
(e.g., testing interface)
379/29.05 ...Metallic loop testing
- 3 379/93.09 (0 OR, 3 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/90.01 TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE
ELECTRICAL SYSTEM OR SIGNALLING (E.G., COMPOSITE)
379/93.01 .Having transmission of a digital message
signal over a telephone line
379/93.09 ..Switching between different terminal types
(e.g., voice/data switch)
- 3 439/101 (0 OR, 3 XR)
Class 439 : ELECTRICAL CONNECTORS
439/92 WITH CIRCUIT CONDUCTORS AND SAFETY GROUNDING
PROVISION
439/101 .Direct grounding of coupling part member
passing into aperture

- 3 439/67 (1 OR, 2 XR)
Class 439 : ELECTRICAL CONNECTORS
439/55 PREFORMED PANEL CIRCUIT ARRANGEMENT, E.G., PCB,
ICM, DIP, CHIP, WAFER, ETC.
439/65 .With provision to conduct electricity from
panel circuit to another panel circuit
439/67 ..Flexible panel
- 3 439/92 (3 OR, 0 XR)
Class 439 : ELECTRICAL CONNECTORS
439/92 WITH CIRCUIT CONDUCTORS AND SAFETY GROUNDING
PROVISION
- 3 725/116 (0 OR, 3 XR)
Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM
COMMUNICATION
725/114 .Server or headend
725/116 ..Control process
- 3 725/119 (0 OR, 3 XR)
Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM
COMMUNICATION
725/118 .Transmission network
725/119 ..Having significant intermediate network unit
(e.g., hub, substation, etc.)
- 3 725/126 (0 OR, 3 XR)
Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM
COMMUNICATION
725/118 .Transmission network
725/126 ..Detail of use of two-way spectrum
- 2 29/623 (1 OR, 1 XR)
Class 029 : METAL WORKING
29/592 METHOD OF MECHANICAL MANUFACTURE
29/592.1 .Electrical device making
29/623 ..Fuse making
- 2 29/830 (0 OR, 2 XR)
Class 029 : METAL WORKING

- 29/592 METHOD OF MECHANICAL MANUFACTURE
- 29/592.1 .Electrical device making
- 29/825 ..Conductor or circuit manufacturing
- 29/829 ...On flat or curved insulated base, e.g.,
printed circuit, etc.
- 29/830Assembling bases

- 2 29/841 (0 OR, 2 XR)
Class 029 : METAL WORKING
- 29/592 METHOD OF MECHANICAL MANUFACTURE
- 29/592.1 .Electrical device making
- 29/825 ..Conductor or circuit manufacturing
- 29/829 ...On flat or curved insulated base, e.g.,
printed circuit, etc.
- 29/832Assembling to base an electrical component,
e.g., capacitor, etc.
- 29/841With encapsulating, e.g., potting, etc.

- 2 29/890.046 (0 OR, 2 XR)
Class 029 : METAL WORKING
- 29/592 METHOD OF MECHANICAL MANUFACTURE
- 29/890.03 .Heat exchanger or boiler making
- 29/890.045 ..Tube with heat transfer means
- 29/890.046 ...Finned tube

- 2 123/538 (2 OR, 0 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
- 123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)

- 123/536 .Combustible mixture ionization, ozonation, or
electrolysis
- 123/538 ..Fuel only

- 2 126/655 (1 OR, 1 XR)
Class 126 : STOVES AND FURNACES
- 126/569 SOLAR HEAT COLLECTOR
- 126/634 .With means to convey fluent medium through
collector
- 126/651 ..Conduit absorber structure
- 126/652 ...Surrounded by transparent enclosure
- 126/655Plurality of conduit absorbers

- 2 137/377 (0 OR, 2 XR)

Class 137 : FLUID HANDLING
137/343 WITH CASING, SUPPORT, PROTECTOR OR STATIC
CONSTRUCTIONAL INSTALLATIONS
137/377 .Guards and shields

2 137/382 (2 OR, 0 XR)
Class 137 : FLUID HANDLING
137/343 WITH CASING, SUPPORT, PROTECTOR OR STATIC
CONSTRUCTIONAL INSTALLATIONS
137/377 .Guards and shields
137/382 ..Valve guards

2 164/436 (2 OR, 0 XR)
Class 164 : METAL FOUNDING
164/271 MEANS TO SHAPE METALLIC MATERIAL
164/418 .Continuous or semicontinuous casting
164/436 ..Adjustable mold size

2 164/491 (0 OR, 2 XR)
Class 164 : METAL FOUNDING
164/1 PROCESS
164/47 .Shaping liquid metal against a forming surface

164/459 ..Continuous or semicontinuous casting
164/491 ...Adjusting mold size

2 174/117FF (2 OR, 0 XR)
Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS
174/68.1 CONDUITS, CABLES OR CONDUCTORS
174/110R .Insulated
174/113R ..Multiple conductor
174/117R ...Assemblies of noncircular section
174/117FFConductor itself is flat

2 174/259 (0 OR, 2 XR)
Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS
174/68.1 CONDUITS, CABLES OR CONDUCTORS
174/250 .Preformed panel circuit arrangement (e.g.,
printed circuit)
174/256 ..With particular material
174/259 ...Adhesive/bonding

2 174/35C (2 OR, 0 XR)

Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS

174/32 ANTI-INDUCTIVE STRUCTURES

174/35R .Shielded or screened

174/35C ..Connectors and joints

2 174/52.1 (1 OR, 1 XR)

Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS

174/50 BOXES AND HOUSINGS

174/52.1 .With electric device or mounting means
therefor

2 174/52.4 (1 OR, 1 XR)

Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS

174/50 BOXES AND HOUSINGS

174/52.1 .With electric device or mounting means
therefor

174/52.3 ..Sealed

174/52.4 ...Flat housing for electronic device (e.g.,
flat pack, dual-in-line package)

2 204/281 (1 OR, 1 XR)

Class 204 : CHEMISTRY: ELECTRICAL AND WAVE ENERGY

204/193 APPARATUS

204/194 .Electrolytic

204/279 ..Elements

204/280 ...Electrodes

204/281Electroforming molds or strips plates

2 204/293 (0 OR, 2 XR)

Class 204 : CHEMISTRY: ELECTRICAL AND WAVE ENERGY

204/193 APPARATUS

204/194 .Electrolytic

204/279 ..Elements

204/280 ...Electrodes

204/291Composition

204/292Metallic

204/293Alloys

2 210/138 (1 OR, 1 XR)

Class 210 : LIQUID PURIFICATION OR SEPARATION

210/138 WITH TIME CONTROL

2 210/169 (0 OR, 2 XR)

Class 210 : LIQUID PURIFICATION OR SEPARATION
 210/153 STRUCTURAL INSTALLATION
 210/167 .Closed circulating systems
 210/169 ..Aquarium or swimming pool

2 210/192 (0 OR, 2 XR)

Class 210 : LIQUID PURIFICATION OR SEPARATION
 210/192 WITH PRELIMINARY CHEMICAL MANUFACTURE

2 228/180.21 (0 OR, 2 XR)

Class 228 : METAL FUSION BONDING
 228/101 PROCESS
 228/178 .Plural joints
 228/179.1 ..Of electrical device (e.g., semiconductor)
 228/180.1 ...Simultaneous bonding of multiple joints
 (e.g., dip soldering of printed circuit boards)
 228/180.21Component terminal to substrate surface
 (i.e., nonpenetrating terminal)

2 257/751 (1 OR, 1 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES
 257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
 257/741 .Of specified material other than unalloyed
 aluminum
 257/750 ..Layered
 257/751 ...At least one layer forms a diffusion barrier

2 313/506 (2 OR, 0 XR)

Class 313 : ELECTRIC LAMP AND DISCHARGE DEVICES
 313/483 WITH LUMINESCENT SOLID OR LIQUID MATERIAL
 313/498 .Solid-state type
 313/506 ..Plural layers

2 313/512 (0 OR, 2 XR)

Class 313 : ELECTRIC LAMP AND DISCHARGE DEVICES
 313/483 WITH LUMINESCENT SOLID OR LIQUID MATERIAL
 313/498 .Solid-state type
 313/512 ..With envelope or encapsulation

2 324/133 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PER

SE

324/133 .Nonquantitative (e.g., hot-line indicator,
polarity tester)

2 324/318 (1 OR, 1 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/300 PARTICLE PRECESSION RESONANCE

324/318 .Spectrometer components

2 324/520 (1 OR, 1 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF
ELECTRIC COMPONENTS

324/512 .For fault location

324/520 ..By frequency sensitive or responsive
detection

2 324/522 (1 OR, 1 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF
ELECTRIC COMPONENTS

324/512 .For fault location

324/522 ..By voltage or current measuring

2 324/534 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF
ELECTRIC COMPONENTS

324/512 .For fault location

324/534 ..By reflection technique

2 324/616 (1 OR, 1 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
RELATIONSHIPS

324/612 .Parameter related to the reproduction or
fidelity of a signal affected by a circuit under test

324/615 ..Transfer function type characteristics

324/616 ...Gain or attenuation

2 324/620 (0 OR, 2 XR)

Class 324 : ELECTRICITY: MEASURING AND TESTING

- 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
RELATIONSHIPS
- 324/612 .Parameter related to the reproduction or
fidelity of a signal affected by a circuit under test
- 324/620 ..Distortion
- 2 333/246 (0 OR, 2 XR)
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
333/245 LONG LINE ELEMENTS AND COMPONENTS
333/246 .Strip type
- 2 333/28R (0 OR, 2 XR)
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
333/24R COUPLING NETWORKS
333/28R .Equalizers
- 2 333/81R (0 OR, 2 XR)
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
333/81R ATTENUATORS
- 2 335/216 (2 OR, 0 XR)
Class 335 : ELECTRICITY: MAGNETICALLY OPERATED SWITCHES,
MAGNETS, AND ELECTROMAGNETS
335/209 MAGNETS AND ELECTROMAGNETS
335/216 .Superconductive type
- 2 336/200 (2 OR, 0 XR)
Class 336 : INDUCTOR DEVICES
336/199 COIL OR COIL TURN SUPPORTS OR SPACERS
336/200 .Printed circuit-type coil
- 2 336/232 (0 OR, 2 XR)
Class 336 : INDUCTOR DEVICES
336/225 COILS OF SPECIAL CONFIGURATION
336/232 .Planar type
- 2 340/310.01 (0 OR, 2 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/286.01 SYSTEMS
340/310.01 .Signal over power line
- 2 340/605 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
340/500 CONDITION RESPONSIVE INDICATING SYSTEM
340/540 ..Specific condition
340/603 ..Fluent material
340/605 ...Leakage

2 343/895 (1 OR, 1 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
343/700R ANTENNAS
343/895 ..Spiral or helical type

2 351/117 (0 OR, 2 XR)

Class 351 : OPTICS: EYE EXAMINING, VISION TESTING AND
CORRECTING
351/41 SPECTACLES AND EYEGLASSES
351/111 ..Temples
351/117 ..With covered core or rod (e.g., reinforced)

2 351/129 (0 OR, 2 XR)

Class 351 : OPTICS: EYE EXAMINING, VISION TESTING AND
CORRECTING
351/41 SPECTACLES AND EYEGLASSES
351/124 ..Bridges
351/129 ..Reinforced

2 351/41 (2 OR, 0 XR)

Class 351 : OPTICS: EYE EXAMINING, VISION TESTING AND
CORRECTING
351/41 SPECTACLES AND EYEGLASSES

2 359/167 (1 OR, 1 XR)

Class 359 : OPTICS: SYSTEMS
359/109 OPTICAL COMMUNICATION
359/154 ..Transmitter and receiver system
359/164 ..Plural stations
359/167 ...Central or master station

2 359/171 (0 OR, 2 XR)

Class 359 : OPTICS: SYSTEMS
359/109 OPTICAL COMMUNICATION
359/154 ..Transmitter and receiver system
359/171 ..Received signal supplies power distribution

to diverse devices

2 359/177 (0 OR, 2 XR)

Class 359 : OPTICS: SYSTEMS

359/109 OPTICAL COMMUNICATION

359/174 .Optical repeater system

359/176 ..Regenerative

359/177 ...Monitoring

2 360/264.2 (2 OR, 0 XR)

Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
RETRIEVAL

360/240 HEAD MOUNTING

360/260 .For shifting head between tracks

360/264 ..Disk record

360/264.1 ...Arcuate head movement

360/264.2Electrical connection detail onto actuator

arm

2 361/111 (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES

361/111 .Transient responsive

2 361/119 (2 OR, 0 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES

361/117 .High voltage dissipation (e.g., lightning
arrester)

361/118 ..Surge prevention (e.g., choke coil)

361/119 ...In communication systems

2 361/752 (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices

361/748 ..Printed circuit board

361/752 ...With housing or chassis

2 361/783 (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 ..For electronic systems and devices

361/748 ..Printed circuit board

361/760 ...Connection of components to board

361/783Having semiconductive device

2 370/207 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/203 GENERALIZED ORTHOGONAL OR SPECIAL MATHEMATICAL
TECHNIQUES

370/206 ..Quadrature carriers

370/207 ..Having a signaling constellation

2 370/230 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/229 DATA FLOW CONGESTION PREVENTION OR CONTROL

370/230 ..Control of data admission to the network

2 370/241 (2 OR, 0 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/241 DIAGNOSTIC TESTING (OTHER THAN SYNCHRONIZATION)

2 370/286 (2 OR, 0 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/276 DUPLEX

370/282 ..Transmit/receive interaction control

370/286 ..Echo suppression or cancellation

2 370/329 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

370/328 ..Having a plurality of contiguous regions
served by respective fixed stations

370/329 ..Channel assignment

2 370/338 (1 OR, 1 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/310 COMMUNICATION OVER FREE SPACE

- 370/328 .Having a plurality of contiguous regions
 served by respective fixed stations
- 370/338 ..Contiguous regions interconnected by a local
 area network
- 2 370/341 (2 OR, 0 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
- 370/310 COMMUNICATION OVER FREE SPACE
- 370/340 .Using trunking
- 370/341 ..Channel assignment
- 2 370/343 (0 OR, 2 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
- 370/310 COMMUNICATION OVER FREE SPACE
- 370/343 .Combining or distributing information via
 frequency channels
- 2 370/356 (1 OR, 1 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
- 370/351 PATHFINDING OR ROUTING
- 370/352 .Combined circuit switching and packet
 switching
- 370/356 ..Routing circuit switched traffic through a
 packet switching network
- 2 370/360 (1 OR, 1 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
- 370/351 PATHFINDING OR ROUTING
- 370/357 .Through a circuit switch
- 370/360 ..Switching control
- 2 370/395.53 (1 OR, 1 XR)
 Class 370 : MULTIPLEX COMMUNICATIONS
- 370/351 PATHFINDING OR ROUTING
- 370/389 .Switching a message which includes an address
 header
- 370/395.1 ..Message transmitted using fixed length
 packets (e.g., ATM cells)
- 370/395.5 ...Multiprotocol network
- 370/395.53 Emulated LAN (LANE/ELAN/VLAN, e.g.,
 Ethernet or token ring legacy LAN over a single ATM
 network/LAN)

- 2 370/420 (0 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/351 PATHFINDING OR ROUTING
370/389 .Switching a message which includes an address
header
370/419 ..Input or output circuit, per se (i.e., line
interface)
370/420 ...For connecting plural subscribers to a
network (i.e., network termination)
- 2 370/442 (0 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/431 CHANNEL ASSIGNMENT TECHNIQUES
370/442 .Combining or distributing information via time
channels using multiple access technique (e.g., TDMA)
- 2 370/467 (0 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/464 COMMUNICATION TECHNIQUES FOR INFORMATION
CARRIED IN PLURAL CHANNELS
370/465 .Adaptive
370/466 ..Converting between protocols
370/467 ...Conversion between signaling protocols
- 2 370/485 (1 OR, 1 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/473 ..Transmission of a single message having
multiple packets
370/480 .Combining or distributing information via
frequency channels
370/485 ..Subscriber carrier
- 2 370/487 (0 OR, 2 XR)
Class 370 : MULTIPLEX COMMUNICATIONS
370/473 ..Transmission of a single message having
multiple packets
370/480 .Combining or distributing information via
frequency channels
370/485 ..Subscriber carrier
370/486 ...Program distribution
370/487Combined communication of diverse
information types

2 370/490 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/480 .Combining or distributing information via frequency channels

370/489 ..Bus (distributed stations)

370/490 ...Combined communication of diverse information types

2 370/496 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/480 .Combining or distributing information via frequency channels

370/496 ..Signaling

2 370/497 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/480 .Combining or distributing information via frequency channels

370/497 ..Using particular filtering technique

2 370/527 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/498 .Combining or distributing information via time channels

370/522 ..Signaling (ancillary to main information)

370/527 ...Superimposed or modulated on principal information

2 370/537 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS

370/473 ..Transmission of a single message having multiple packets

370/498 .Combining or distributing information via time channels

370/537 ..Multiplexing plural input channels to a

- 2 375/228 (1 OR, 1 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/224 TESTING
 - 375/228 .With indicator
- 2 375/233 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/229 EQUALIZERS
 - 375/230 .Automatic
 - 375/232 ..Adaptive
 - 375/233 ...Decision feedback equalizer
- 2 375/258 (0 OR, 2 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/257 CABLE SYSTEMS AND COMPONENTS
 - 375/258 .Transformer coupling
- 2 375/285 (2 OR, 0 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT
 - 375/285 .Antinoise or distortion
- 2 375/286 (1 OR, 1 XR)
 - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
 - 375/286 MULTILEVEL
- 2 379/10.01 (0 OR, 2 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT
 - 379/9 .Of centralized switching system
 - 379/10.01 ..By automatic testing sequence
- 2 379/12 (0 OR, 2 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
ELECTRICAL CONDITION MEASUREMENT
 - 379/9 .Of centralized switching system
 - 379/12 ..With dedicated testing line or trunk

2 379/14 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
 ELECTRICAL CONDITION MEASUREMENT
 379/9 .Of centralized switching system
 379/14 ..Of plural exchange network

2 379/14.01 (1 OR, 1 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
 ELECTRICAL CONDITION MEASUREMENT
 379/9 .Of centralized switching system
 379/14 ..Of plural exchange network
 379/14.01 ...Fault segmentation (e.g., error location in
 network)

2 379/22.04 (1 OR, 1 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
 ELECTRICAL CONDITION MEASUREMENT
 379/22 .Of trunk or long line
 379/22.03 ..Fault detection or fault location on
 telephone link (e.g., continuity, leakage)
 379/22.04 ...Of digital loop carrier

2 379/29.04 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
 ELECTRICAL CONDITION MEASUREMENT
 379/27.01 .Testing of subscriber loop or terminal
 379/29.01 ..Terminal arrangement to enable remote testing
 (e.g., testing interface)
 379/29.04 ...Voltage or current detector

2 379/29.09 (1 OR, 1 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR
 ELECTRICAL CONDITION MEASUREMENT
 379/27.01 .Testing of subscriber loop or terminal
 379/29.01 ..Terminal arrangement to enable remote testing
 (e.g., testing interface)
 379/29.09 ...With historical operating information
 database

- 2 379/31 (1 OR, 1 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/1.01 DIAGNOSTIC TESTING, MALFUNCTION INDICATION, OR ELECTRICAL CONDITION MEASUREMENT
 - 379/27.01 .Testing of subscriber loop or terminal
 - 379/31 ..Of line signalling generator (e.g., dial, tone code generator)

- 2 379/327 (0 OR, 2 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/242 CENTRALIZED SWITCHING SYSTEM
 - 379/325 .Structure of equipment
 - 379/326 ..Wire or cable distribution
 - 379/327 ...Main or intermediate distribution frame

- 2 379/399.01 (1 OR, 1 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/399.01 SUBSCRIBER LINE OR TRANSMISSION LINE INTERFACE

- 2 379/402 (1 OR, 1 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/399.01 SUBSCRIBER LINE OR TRANSMISSION LINE INTERFACE

 - 379/402 .Hybrid circuit

- 2 379/413 (0 OR, 2 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/399.01 SUBSCRIBER LINE OR TRANSMISSION LINE INTERFACE

 - 379/413 .Power supply (e.g., battery feed)

- 2 379/413.04 (1 OR, 1 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/399.01 SUBSCRIBER LINE OR TRANSMISSION LINE INTERFACE

 - 379/413.02 .Network interface device (NLD)
 - 379/413.04 ..Connection block or module

- 2 379/93.01 (0 OR, 2 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/90.01 TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE

ELECTRICAL SYSTEM OR SIGNALLING (E.G., COMPOSITE)

379/93.01 .Having transmission of a digital message
signal over a telephone line

2 379/93.08 (2 OR, 0 XR)

Class 379 : TELEPHONIC COMMUNICATIONS

379/90.01 TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE
ELECTRICAL SYSTEM OR SIGNALLING (E.G., COMPOSITE)

379/93.01 .Having transmission of a digital message
signal over a telephone line

379/93.08 ..Transmission scheme (e.g.,
compression/decompression, transmission rate)

2 384/276 (1 OR, 1 XR)

Class 384 : BEARINGS

384/91 ROTARY BEARING

384/129 .Plain bearing

384/276 ..Specified sleeve or liner

2 384/294 (0 OR, 2 XR)

Class 384 : BEARINGS

384/91 ROTARY BEARING

384/129 .Plain bearing

384/276 ..Specified sleeve or liner

384/294 ...For crankshaft

2 385/101 (2 OR, 0 XR)

Class 385 : OPTICAL WAVEGUIDES

385/100 OPTICAL TRANSMISSION CABLE

385/101 .With electrical conductor in the same cable

2 427/123 (0 OR, 2 XR)

Class 427 : COATING PROCESSES

427/58 ELECTRICAL PRODUCT PRODUCED

427/123 .Metal coating

2 427/124 (0 OR, 2 XR)

Class 427 : COATING PROCESSES

427/58 ELECTRICAL PRODUCT PRODUCED

427/123 .Metal coating

427/124 ..Vapor deposition or utilizing vacuum

2 427/97 (1 OR, 1 XR)

Class 427 : COATING PROCESSES
 427/58 ELECTRICAL PRODUCT PRODUCED
 427/96 ..Integrated circuit, printed circuit, or
 circuit board
 427/97 ..Coating hole walls

2 427/99 (0 OR, 2 XR)

Class 427 : COATING PROCESSES
 427/58 ELECTRICAL PRODUCT PRODUCED
 427/96 ..Integrated circuit, printed circuit, or
 circuit board
 427/99 ..Vapor deposition

2 438/628 (2 OR, 0 XR)

Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

438/584 COATING WITH ELECTRICALLY OR THERMALLY
 CONDUCTIVE MATERIAL
 438/597 ..To form ohmic contact to semiconductive
 material
 438/618 ..Contacting multiple semiconductive regions
 (i.e., interconnects)
 438/622 ...Multiple metal levels, separated by
 insulating layer (i.e., multiple level metallization)
 438/625At least one metallization level formed of
 diverse conductive layers
 438/628Having adhesion promoting layer

2 438/654 (0 OR, 2 XR)

Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

438/584 COATING WITH ELECTRICALLY OR THERMALLY
 CONDUCTIVE MATERIAL
 438/597 ..To form ohmic contact to semiconductive
 material
 438/652 ..Plural layered electrode or conductor
 438/654 ...Having adhesion promoting layer

2 438/658 (0 OR, 2 XR)

Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

438/584 COATING WITH ELECTRICALLY OR THERMALLY
 CONDUCTIVE MATERIAL

- 438/597 .To form ohmic contact to semiconductive material
- 438/658 ..Altering composition of conductor
- 2 438/660 (0 OR, 2 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
- 438/584 COATING WITH ELECTRICALLY OR THERMALLY CONDUCTIVE MATERIAL
- 438/597 .To form ohmic contact to semiconductive material
- 438/660 ..Including heat treatment of conductive layer
- 2 439/404 (1 OR, 1 XR)
Class 439 : ELECTRICAL CONNECTORS
- 439/387 CONTACT COMPRISING CUTTER (SEVERING, PIERCING, ABRADING, SCRAPING, BREAKING OR TEARING)
- 439/389 .Insulation cutter
- 439/391 ..Conductor sheath piercing
- 439/395 ...Having slot edge for cutting insulation
- 439/404Plural contacts, each formed by slot between pair of fingers
- 2 439/49 (1 OR, 1 XR)
Class 439 : ELECTRICAL CONNECTORS
- 439/43 WITH SELECTABLE CIRCUIT, E.G., PLUG BOARD
- 439/49 .Including three or more contacts adapted to be selectively interconnected
- 2 439/62 (1 OR, 1 XR)
Class 439 : ELECTRICAL CONNECTORS
- 439/55 PREFORMED PANEL CIRCUIT ARRANGEMENT, E.G., PCB, ICM, DIP, CHIP, WAFER, ETC.
- 439/59 .With mating connector which receives panel circuit edge
- 439/62 ..Panel mounted connector which receives edge of panel circuit
- 2 439/94 (1 OR, 1 XR)
Class 439 : ELECTRICAL CONNECTORS
- 439/92 WITH CIRCUIT CONDUCTORS AND SAFETY GROUNDING PROVISION

439/94 .Uninterrupted support rail or contact, or for
interfitting with uninterrupted support rail or contact

2 455/1 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS
455/1 INTERFERENCE SIGNAL TRANSMISSION (E.G.,
JAMMING)

2 455/26.1 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS
455/26.1 USE OR ACCESS BLOCKING (E.G., LOCKING SWITCH)

2 702/69 (0 OR, 2 XR)

Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/57 .Electrical signal parameter measurement system

702/66 ..Waveform analysis
702/69 ...Signal quality (e.g., timing jitter,
distortion, signal-to-noise ratio)

2 725/118 (0 OR, 2 XR)

Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM
COMMUNICATION
725/118 .Transmission network

2 725/130 (0 OR, 2 XR)

Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
725/105 VIDEO DISTRIBUTION SYSTEM WITH UPSTREAM
COMMUNICATION
725/118 .Transmission network
725/130 ..Power signal over network